Carbon Dioxide Phenomenon

Objective: I can model the movement of carbon in an ecosystem and explain the buildup of carbon dioxide in the atmosphere.

Measuring CO₂

Instructions:

- 1. Turn on the CO₂ sensor. Wait for the 30 sec. Countdown. If the alarm sounds, click the "mode" button to turn it off.
- 2. Record the amount of carbon dioxide after 30 seconds in each location.
- 3. Compare the readings to each other. Try to explain why each reading is "higher" or "lower" than the others. The average reading for outdoor air is 415 ppm.

Location	CO₂ Reading (ppm)	Possible Explanation
At the propane burner		
Inside the classroom		
In the hall		
Partner's breathe		
Outside		
Car Exhaust		

Carbon Cycle Model

Instructions: Choose a starting location around the room. At each location roll the dice, write the name of the station and how you moved to the next station. If you "stay put" write that on the next line and roll again.

Take a picture of your journey (list) here.				
Divontions				
Directions				
Use the lis	st to create a model showing your journey.			

Use several individual models to create a larger model showing the entire carbon cycle.

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Data Analy	vsis:	
Identify at I	east 4 patterns from the data you collected. Hints (place	es you
could get s	tuck, places carbon tended to go, repeating loops, place	es carbon
rarely went	t, common forms of carbon)	
1.		
2.		
3.		
4.		
Conclusion	ns:	
1) What	explanations do you have for any of these patterns (exp	olain one
or se	veral)?	

2) Identify the parts of this cycle that move carbon quickly.
3) Identify the parts of this cycle that move carbon very slowly.